

	Black = every year	Green = alternating years
Codes	Fall	Spring
A-1C	Intro courses (2 courses for ATOC major)	
	ATOC 1050 Weather and Atmosphere	ATOC 1050 Weather and Atmosphere
	ATOC 1060 Our Changing Environment	ATOC 1060 Our Changing Environment
	FYSM 1000 First Year Seminar	ATOC 2050 Intro. to Atmos. & Oceanic Sci.
A-3C	Core courses (3 courses for ATOC major)	
	ATOC 3070 Intro to Oceanography	ATOC 3050 Principle of Climate
	ATOC 3600 Principle of Climate	ATOC 3070 Intro to Oceanography (GEOL)
		ATOC 3300 Analysis of Wea. & Clim. Obs.
		ATOC 3500 Air Chemistry and Pollution
		ATOC 3600 Principle of Climate (GEOG)
A-4F	Fundamentals courses (3 courses for ATOC major)	
	ATOC 4710 Intro to Atmospheric Physics	ATOC 4720 Atmospheric Dynamics
	ATOC 4730 Phys. Ocean. and Climate	ATOC 4200 Biochemical Oceanography
A-4M	Methods courses (4 courses or 12 credits. 4900, 4950, & 4990 credits apply to methods OR electives)	
	ATOC 4815 Scientific Programming	ATOC 4700 Weather Analysis & Forecasting
	ATOC 4820 Instrumental Methods Lab	ATOC 4820 Data Science Application Lab
	ATOC 4870 Weather Modeling Lab	ATOC 4830 Remote Sensing Lab
	ATOC 4875 Climate Modeling Lab	ATOC 4840 Field Observation Lab
	ATOC 4880 Synoptic Dynamic Meteorology	ATOC 4850 Numerical Methods Lab
	ATOC 4900 Independent Study (1-3 credits)	ATOC 4900 Independent Study (1-3 credits)
	ATOC 4950 Honor Thesis (1-3 credits)	ATOC 4950 Honor Thesis (1-3 credits)
	ATOC 4990 Internship for credit (1-3 credits)	ATOC 4990 Internship for credit (1-3 credits)
A-4E	Upper-division electives (4 courses or 12 credits. 4900, 4950, & 4990 credits apply to methods OR electives)	
	ATOC 3180 Aviation Meteorology	ATOC 4500 Mesoscale Dynamics
	ATOC 4500 Ugr. Prof. Develop. Sem. (1-3 creds)	ATOC 4770 Wind Energy Meteorology
	ATOC 4550 Mountain Meteorology	ATOC 4800 Climate Controversies
	ATOC 4750 Desert Meteorology	ATOC 4215 Descriptive Phys. Oceanography
	ATOC 4900 Independent Study (1-3 credits)	ATOC 4500 Ice Sheet & Climate Interactions
	ATOC 4950 Honor Thesis (1-3 credits)	ATOC 4900 Independent Study (1-3 credits)
	ATOC 4990 Internship for credit (1-3 credits)	ATOC 4950 Honor Thesis (1-3 credits)
		ATOC 4990 Internship for credit (1-3 credits)

Weather Focus Sample Schedule

Year 1

Fall	Hrs	Spring	Hrs
FYSM 1000 - 1st Yr. Seminar for ATOC ATOC 1050 Weather ATOC 1060 Climate	3	ATOC 2050 - Intr. to Atmos. & Ocean. Sci.	3
APPM 1350 - Calc. 1 for Engineers	4	APPM 1360 - Calc. 2 for Engineers	4
PHYS 1110 - General Physics 1	4	PHYS 1120 - General Physics 2	4
A&S Gen Ed - Skills Acquis. Req.	3	A&S Gen Ed - Distribution Req.	6
Total Hrs	14	Total Hrs	17

Year 2

Fall	Hrs	Spring	Hrs
ATOC 3600 - Principles of Climate	3	ATOC 3050 - Principles of Weather ATOC 3300 - Analysis of Wx & Clim. Obs.	3
CHEM 1113 - General Chem. 1	4	APPM 2360 - Diff. Eq. with Linear Algebra	4
CHEM 1114 - General Chem. Lab 1	1	CSCI 1300 - Computer Science 1	4
APPM 2350 - Calc. 3 for Engineers	4	A&S Gen Ed - Distribution Req.	3
A&S Gen Ed - Distribution Req.	3		
Total Hrs	15	Total Hrs	17

Year 3

Fall	Hrs	Spring	Hrs
ATOC 4815 - Sci. Prog. & Data Visualization	3	ATOC 3500 - Air Chemistry & Pollution	3
ATOC 4710 - Intro. to Atmos. Physics	3	ATOC 4700 - Wx Analysis & Forecasting ATOC 4720 - Intro. to Atmos. Dynamics	3
A&S Gen Ed - Distribution Req.	3		
A&S Gen Ed - Distribution Req.	3	A&S Gen Ed - Skills Acquis. Req.	3
A&S Gen Ed - Distribution Req.	3	A&S Gen Ed - Distribution Req.	3
Total Hrs	15	Total Hrs	15

Year 4

Fall	Hrs	Spring	Hrs
ATOC 4880 Synoptic Dynamic Meteor.	3	ATOC 4500 Mesoscale Dynamics	3
ATOC 4550 - Mountain Meteorology ATOC 4875 - Weather Modeling Lab ATOC 4820 - Instrumental Methods Lab ATOC 4900 - Independent Study ATOC 4950 - Honors Thesis ATOC 4990 - Internship for Credit	3	ATOC 4840 - Field Obs. Lab. ATOC 4830 - Remote Sensing Lab. ATOC 4820 - Data Science Lab ATOC 4900 - Independent Study ATOC 4950 - Honors Thesis ATOC 4990 - Internship for Credit	3
ATOC 4730 Physical Oceanogr. & Climate	3	ATOC 4770 Wind Energy Meteorology ATOC 4750 Desert Meteorology ATOC 4800 Climate Controversies	3
A&S Gen Ed - Distribution Req.	3	A&S Gen Ed - Elective Course	3
A&S Gen Ed - Elective Course	3	A&S Gen Ed - Elective Course	3
Total Hrs	15	Total Hrs	15

Total Hours	123
ATOC Hours	48

Can be used to fulfill the min requirements from NWS

Ocean Focus Sample Schedule

Year 1

Fall	Hrs	Code	Spring	Hrs	Code
FYSM 1000 - 1st Yr. Seminar for ATOC	3	A-1C	ATOC 2050 - Intr. to Atmos. & Ocean. Sci.	3	A-1C
APPM 1350 - Calc. 1 for Engineers	4		APPM 1360 - Calc. 2 for Engineers	4	
PHYS 1110 - General Physics 1	4		PHYS 1120 - General Physics 2	4	
A&S Gen Ed - Skills Acquis. Req.	3		A&S Gen Ed - Distribution Req.	6	
Total Hrs	14		Total Hrs	17	

Year 2

Fall	Hrs	Code	Spring	Hrs	Code
ATOC 3070 - Intro to Oceanography	3	A-3C	ATOC 3300 - Analysis of Wx & Clim. Obs.	3	A-3C
ATOC 3600 - Principles of Climate	3	A-3C			
CHEM 1113 - General Chem. 1	4		APPM 2360 - Diff. Eq. with Linear Algebra	4	
CHEM 1114 - General Chem. Lab 1	1		CSCI 1300 - Computer Science 1	4	
APPM 2350 - Calc. 3 for Engineers	4		A&S Gen Ed - Distribution Req.	3	
			A&S Gen Ed - Distribution Req.	3	
Total Hrs	15		Total Hrs	17	

Year 3

Fall	Hrs	Code	Spring	Hrs	Code
ATOC 4730 Physical Oceanogr. & Climate	3	A-4F	ATOC 4200 Biochemical Oceanography	3	A-4F
ATOC 4710 Intro. to Atmos. Physics	3	A-4F	ATOC 4820 Data Science Appl. Lab	3	A-4M
ATOC 4815 Scientific Programming	3	A-4M	ATOC 4215 Descr. Phy. Oceanography	3	A-4E
A&S Gen Ed - Distribution Req.	3		A&S Gen Ed - Skills Acquis. Req.	3	
A&S Gen Ed - Distribution Req.	3		A&S Gen Ed - Distribution Req.	3	
Total Hrs	15		Total Hrs	15	

Year 4

Fall	Hrs	Code	Spring	Hrs	Code
ATOC 4900 Independent Study	3	A-4E	ATOC 4950 Honors Thesis	3	A-4E
ATOC 4870 Climate Modeling Lab	3	A-4M	ATOC 4830 Field Observations Lab	3	A-4M
			ATOC 4800 - Climate Controversies	3	A-4E
A&S Gen Ed - Distribution Req.	3				
A&S Gen Ed - Distribution Req.	3		A&S Gen Ed - Elective Course	3	
A&S Gen Ed - Elective Course	3		A&S Gen Ed - Elective Course	3	
Total Hrs	15		Total Hrs	15	

Note that ATOC 4900 & 4950 can count as upper level elective (A-4E) or methods (A-4M) credits

Total Hours	123
ATOC Hours	48

ATOC Requirement	Code	Hrs	Req. Hrs
1000/2000 level ATOC core	A-1C	6	6
3000 level ATOC core	A-3C	9	9
4000 level ATOC fundamentals	A-4F	9	9
4000 level ATOC methods	A-4M	12	12
4000 level ATOC electives	A-4E	12	12